

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An additive for a printing ink comprising a polyethylene-based wax specified by the following (i) to (vii):
 - (i) being an ethylene homopolymer or a copolymer of ethylene and at least one α -olefin selected from α -olefins having 3 to 20 carbon atoms,
 - (ii) having the intrinsic viscosity $[\eta]$ determined in decalin at 135°C ranging from 0.06 to 0.35 dl/g,
 - (iii) having the ratio (Mw/Mn) of weight average molecular weight (Mw) to number average molecular weight (Mn) determined by gel permeation chromatography (GPC) ranging from 1.7 to 3.2,
 - (iv) having the ratio (Mz/Mw) of z-average molecular weight (Mz) to weight average molecular weight (Mw) determined by gel permeation chromatography (GPC) ranging from 1.5 to 2.0,
 - (v) having the density ranging from 920 to 980 kg/m³,
 - (vi) having the penetration hardness of 5 dmm or less, and
 - (vii) having the acid value ranging from 0.3 to 9.9 KOH-mg/g, and

wherein the polyethylene-based wax is produced with a metallocene-based catalyst and is subjected to oxidative modification.

2. (Canceled)

3 (Previously Presented) A solvent dispersion for a printing ink, wherein the polyethylene-based wax according to claim 1 is dispersed in the form of fine particles having a volume average particle diameter ranging from 0.3 to 10 μm and at a ratio of 5 to 50 wt.% based on the total weight of the solvent dispersion in a non-aromatic solvent.

4 (Previously Presented) The solvent dispersion for a printing ink according to claim 3, wherein the non-aromatic solvent contains an alcohol-based solvent and/or an ester-based solvent at a ratio of 10 wt.% or more based on the total weight of the non-aromatic solvent.

5 (Previously Presented) A printing ink in which the polyethylene-based wax according to claim 1 is contained in the form of fine particles having a volume average particle diameter ranging from 0.3 to 10 μm and at a ratio of 0.1 to 10 wt.%, and the content of an aromatic solvent is less than 5 wt.% based on the total weight of the printing ink composition.